PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TR	ANSMITTAL LETTER TO	THE UNITED STATES	ATTORNEY'S DOCKET NUMBER				
DESIGNATED/ELECTED OFFICE (DO/EO/US)			OSU2949PCTUS				
CON	ICERNING A SUBMISSIC	ON UNDER 35 U.S.C. 371	U.S. APPLICATION NO (If known, see 37 CFR 1.5)				
	TIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED				
	S2004/017224 INVENTION	28 May 2004 (28.05.2004)	28 May 2003 (28.05.2003)				
Measuring Human Heart Muscle Viability Using Myocardial Electrical Impedance							
t .	APPLICANT(S) FOR DO/EO/US Roger R. Dzwonczyk; Carlos L. del Rio; Patrick I. McConnell and Michael B. Howie						
Applicant	Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:						
1. 🗵	This is a <b>FIRST</b> submission of items co	oncerning a submission under 35 U.S.C. 371	ı.				
<u> </u>	2. This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.						
3. 🔲 1	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.						
5. X							
		d only if not communicated by the Internation	nal Bureau).				
	b. has been communicated by the International Bureau.						
	•	cation was filed in the United States Receiving					
6.		e International Application as filed (35 U.S.C	2. 371(c)(2)).				
	a. is attached hereto.	"					
7. X		tted under 35 U.S.C. 154(d)(4).	V05 11 0 0 074/-N/N				
/. ···		ernational Application under PCT Article 19 (					
		ired only if not communicated by the Internal by the Internal by the International Bureau.	tional Bureau).				
		ever, the time limit for making such amendm	nente has NOT evnired				
3	d. X have not been made and w		Terris Tras TVCT CAPITOS.				
8. 🗆	An English language translation of the	ne amendments to the claims under PCT Art	ticle 19 (35 U.S.C. 371(c)(3)).				
9.	An oath or declaration of the inventor	(s) (35 U.S.C. 371(c)(4)).					
10.	An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary E	xamination Report under PCT				
Items	11 to 20 below concern document(s	) or information included:					
11. 🔲	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.					
12. 🔲	An assignment document for recording	ng. A separate cover sheet in compliance wi	th 37 CFR 3.28 and 3.31 is included.				
13.	A preliminary amendment.						
14.	An Application Data Sheet under 37 0	CFR 1.76.					
15.	A substitute specification.						
16.	A power of attorney and/or change of	address letter.					
17.	A computer-readable form of the sequence	uence listing in accordance with PCT Rule 1	3ter.2 and 37 CFR 1.821- 1.825.				
18.	A second copy of the published Interr	national Application under 35 U.S.C. 154(d)(	(4).				
19. 🗀	A second copy of the English language	ge translation of the international application	under 35 U.S.C. 154(d)(4).				

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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U.S. APPLICATION	ON NO (if known	see 37 CFR 1.5)	INTERNATIONAL AF	PLICATION NO.	ATTORNEY'S DO	OCKET NUMBER
	00200	4/0	PCT/US2004/0172	24	OSU 2949 PCT	
20. Other it	ems or information	on:				
The follow	ving fees have b	een submitted			CALCULATIONS	PTO USE ONLY
	national fee (37			\$300	\$ 300.00	
22. X Examin	nation fee (37 CF	R 1.492(c))				
If the written opinion	on prepared by IS S indicates all cl	SA/US or the inter	national preliminary examinat sions of PCT Article 33(1)-(4)	ion report prepared \$0\$200	\$ 0.00	
If the written opinion IPEA/US in Search fee (37 CF) Internation International Search	ndicates all claim R 1.445(a)(2)) ha al Searching Au ch Report prepare	or the Internation as satisfy provision as been paid on the thority	al preliminary examination reports of PCT Article 33(1)-(4) the international application to the than the US and provided to the control of t	<b>\$0</b> the USPTO as an <b>.\$100</b>	\$ 0.00	
T	OTAL OF 21, 22	2 and 23 =			300.00	
sequence electronic i The fee is \$	listing in complia medium) (37 CFI	nce with 37 CFR R 1.492(j)). ditional 50 sheets Number of each	d in paper over 100 sheets (example) 1.821(c) or (e) or computer page of paper or fraction thereof. additional 50 or fraction up to a whole number)		-	
- 100 =	/50 =			x \$250	\$ 0.00	I
			h fee, examination fee, or the e (37 CFR 1.492(h)).		\$ 0.00	
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$	
Total claims	9	- 20 =		x \$ 50	\$ 0.00	
Independent claims	s 1	- 3 =		x \$200	\$ 0.00	
MULTIPLE DEPEN	IDENT CLAIM(S	) (if applicable)		+ \$360	\$ 0.00	
			TOTAL OF ABOVE		\$ 0.00	
Applicant claim	ns small entity st	atus. See 37 CFF	R 1.27. Fees above are reduc	ed by 1/2.	0.00	
				SUBTOTAL =	\$ 0.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). +					\$ 0.00	
			TOTAL	NATIONAL FEE =	\$ 300.00	
			1.21(h)). The assignment muse 40.00 per property	st be accompanied +	\$	
			TOTAL F	EES ENCLOSED =	\$ 300.00	
					Amount to be refunded:	\$
					Amount to be charged	\$

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a. 🗴	A check in the amount of \$ 300.00	to cover the above fees is enclosed.			
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c. X	The Commissioner is hereby authorized to charge any a Account No. 13-3393 A duplicate copy of this she		verpayment to Deposit		
d. 🔲	Fees are to be charged to a credit card. WARNING: Inf be included on this form. Provide credit card informat		d information should not		
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
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	s in connection with Customer No. 002555	SIGNATURE	11-2-2005		
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